Kenwood 940s
LITHIUM Battery

LITHIUM BATTERY REPLACEMENT in the TS-940S

Thank you for taking the time to contact Kenwood Communications Corporation to inquire about lithium battery replacement on the TS-940S. We are dedicated to provide the highest level of professional service that will give our customers complete satisfaction, and enhance your experience with Kenwood Amateur Radio products.

The procedure to replace the lithium batteries on the TS-940S is a bit tricky, but with a little patience and the right tools it can be done. We have outlined a few steps below which should guide you along in this procedure.

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To start things off, you will need to order two new batteries: One for the clock and one for the Digital A Unit. To order them, you can contact either one of the following authorized parts distributors:

PACIFIC COAST PARTS
153 E. Compton Blvd.
Gardena, CA 90248
Phone: 800-421-[illegible]989

East Coast Transistor Parts
P.O. Box 238
West Hempstead, NY 11552
Phone: 800-637-0388

The part number for the LCD/clock display battery is "**W09-0359-05**" and retails for approximately $16.00. The part number for the Digital A Unit battery is "**W09-0326-05**" ✓ and retails for approximately $14.00. Both prices do not include any tax or shipping charges.

After you get the batteries you will notice that one is physically larger than the other. The larger battery is for the clock and the other, smaller one, is for the Digital A Unit.

Once you have the batteries identified, you can begin the installation procedure. We'll begin with the clock battery which is located behind the LCD display. To get at this battery please follow these steps:

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1) Turn the TS-940S off and unplug it from the AC outlet and let it sit for about 15 minutes.

2) Remove the top and bottom covers. There are 16 screws that must be removed.

3) Remove the top screw from each side of the front panel assembly.

4) Loosen the bottom screw on each side of the front panel assembly.

5) Carefully tilt the front panel assembly forward to expose the area behind the LCD/clock display. Be careful here as there are many small, delicate wires.

6) Unsolder the old battery and solder in the new one—negative lead first.

Now, depending on how old your unit is you may see 2 batteries soldered together in parallel behind the LCD/clock display. Don't be too concerned with this, just go ahead and solder the new, single, battery in its place.

To get at the second battery, located underneath the built-in speaker, carefully remove the speaker and the cover for the Digital A Unit. The speaker should only have four screws that have to be removed, and the Digital A Unit has only eight screws. Again, unsolder the old battery and then carefully solder in the new battery—negative lead first.

Reassemble the transceiver being very careful not to pinch any wires, and leave the top cover off for now. Once the radio is back together you will need to reset both the CPU for the LCD/clock display and the main CPU of the radio. Reset the clock CPU as follows:

1) Plug the TS-940S in and turn the power ON.

2) With a non-metallic stick of some kind (a Popsicle stick or tongue depressor works nice for this), press down on the tall black microswitch which is located near the lower right edge of that same (LCD/clock display) circuit board on which you replaced the lithium battery.

3) Hold this switch down for a few seconds and then let up on it.

4) Replace the top cover.

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	SAMS PHOTOFACTS - Lot of 5-Auto Radio Series	**$10.00**	-	Jun-11 20:55
	SAMS PHOTOFACTS FOR TV`S [L@@K }	**$9.99**	-	Jun-12 08:51
	SAMS PHOTOFACTS FOR TV`S [L@@K }	**$9.99**	-	Jun-14 14:00
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📷	Mc INTOSH MODEL MC-60 AMP. SAMS PHOTOFACTS!	**$9.48**	3	Jun-17 10:34
📷	SAMS TV PHOTOFACTS { L@@ }	**$8.00**	1	Jun-25 21:32
	SAMS PHOTOFACTS [SUPER BUY]	**$7.50**	-	Jun-22 09:57
📷	PILOT MODEL 602M MPLX ADP. SAMS PHOTOFACTS!	**$7.00**	1	Jun-26 21:54
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📷	SAMS PHOTOFACTS CB RADIO SERIES#34 FREE SHIP!	**$7.00**	1	Jun-09 18:49
📷	SAMS PHOTOFACTS CB RADIO SERIES#96 FREE SHIP!	**$7.00**	-	Jun-10 16:21
📷	SAMS PHOTOFACTS CB RADIO SERIES#66 FREE SHIP!	**$7.00**	1	Jun-10 16:10
📷	SAMS PHOTOFACTS CB RADIO SERIES#264 FREE SHIP	**$7.00**	-	Jun-08 19:35
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Now you are ready to reset the main CPU. This is done as follows:

1) Turn the TS-940S off but leave it plugged in.

2) Press and hold the **A=B** key and turn the power on.

Once this has been done you should be ready to operate once again.

Well, I hope that this bit of information will help you in replacing the lithium batteries. If you should get stuck on any part of this procedure or have any other questions please call us right away at (310) 639-5300.

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	Sams Photofacts AR Series	**$6.00**	-	Jun-14 20:00
	Sams Photofacts National NC-98 Free Shipping	**$6.00**	-	Jun-11 17:11
📷	PILOT MODEL 602M REC,AMP. SAMS PHOTOFACTS!	**$6.00**	1	Jun-18 07:16
📷	MARANTZ "AUDIO CONSOLETTE" SAMS PHOTOFACTS!	**$6.00**	1	Jun-13 08:25
📷	MAGNECORD F-35B RECORDER SAMS PHOTOFACTS!	**$6.00**	1	Jun-11 10:15
📷	1947 truetone D-2709 RADIO SAMS PHOTOFACTS!	**$5.00**	-	Jun-08 13:16
📷	1947 SONORA WAU-243 RADIO SAMS PHOTOFACTS!	**$5.00**	-	Jun-08 13:25
📷	FADA P-100 PORTABLE SAMS PHOTOFACTS FREE SHIP	**$5.00**	-	Jun-08 13:44
📷	PILOT MODEL 590 RECVR,AMP SAMS PHOTOFACTS!	**$5.00**	-	Jun-24 06:14
📷	FADA P80 PORTABLE SAMS PHOTOFACTS!	**$5.00**	-	Jun-08 13:39

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Note: Bid counts and amounts may be slightly out of date. Click on the specific item(s) you are interested in for up-to-date information.

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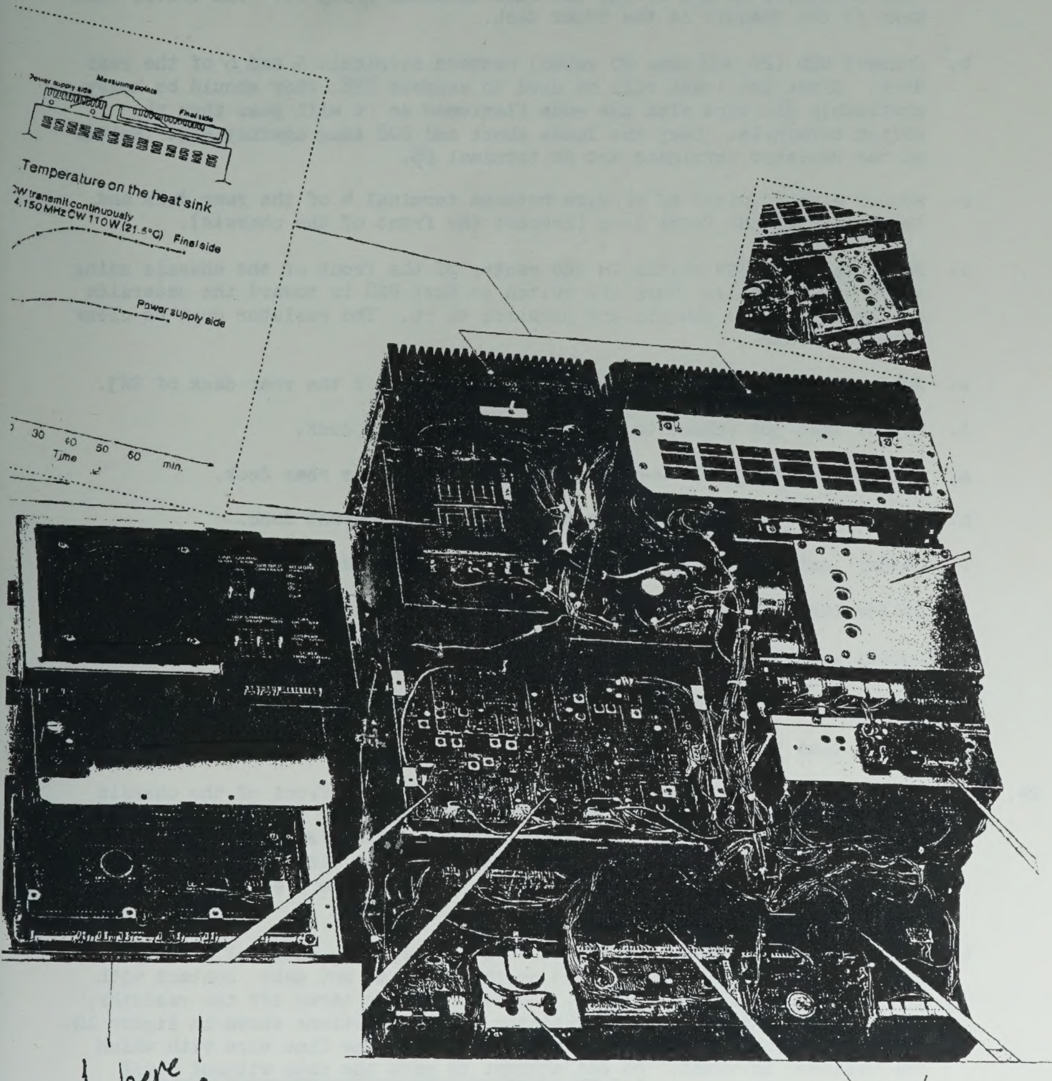

1 here!

1 (or 2) here!

23. a. In order that you may stay properly oriented in wiring the switch, number any one of the center terminals of one of the groups of three terminals, #1. Looking at the rear of both decks, call the next terminal in a clockwise direction #2 and so on, the last terminal being #9. The switch deck next to the chassis is the front deck.

b. Connect R28 (20,000 ohms 20 watts) between terminals 5 and 6 of the rear deck. Since the leads will be used to support R28, they should be heavy, preferably #14 wire with the ends flattened so it will pass thru the switch terminals. Keep the leads short and R28 snug against SW3. Solder at the resistor terminals and at terminal #6.

c. Solder a short piece of W2 wire between terminal 4 of the rear deck and terminal 1 of the front deck (nearest the front of the chassis).

d. Mount the phone/CW switch in the center of the front of the chassis using a 3/8"-32 nut only. Turn the switch so that R28 is toward the underside of the top of the chassis and parallel to it. The resistor must be clear of the chassis.

e. Solder leads 2B and 34B (brown) to terminal #1 of the rear deck of SW3.

f. Solder lead 36A (blue) to terminal 2 of the rear deck.

g. Solder lead 45A (yellow-blue) to terminal 3 of the rear deck.

h. Solder lead 41B (gray-red) to terminal 9 of the front deck.

i. Solder lead 47A (gray) to terminal 5 of the rear deck.

j. Solder lead 48A (green-white) to terminal 7 of the rear deck.

k. Solder lead 44B (violet) to terminal 8 of the rear deck.

l. Solder lead 35A (orange) to terminal 9 of the rear deck.

m. Solder lead 51B (green) to terminal 2 of the front deck.

24. a. Mount the voltage divider R13 perpendicular to the front of the chassis as shown in Figure 10. One of the resistor mounting feet was earlier mounted under the nut for the final inductor L9. Place the open end of R13 over the bracket "V" and mount the other foot with a 1/4" 6-32 binding head screw, shakeproof washer and nut. Also fasten a #6 solder terminal under the mounting nut.

b. When the resistor was shipped from the factory, the shape of the taps may have been deliberately distorted so that they do not make contact with the resistance element. If so, the taps must be taken off the resistor, reshaped and put back on the resistor in the positions shown in Figure 10. Tighten the taps carefully so as not to damage the fine wire with which the resistor is wound. Do not attempt to move the taps without first loosening them!

c. Solder leads 42B, 43A and 44A (violet) to the terminal on the end of R13 nearest the rear of the chassis.